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# MEAN WELL

## SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

# PS-65

## SERIES

Jameco Part  
Number 216750  
(PS-65-15)

- .LOW COST, HIGH RELIABILITY
- .105°C OUTPUT CAPACITOR
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE



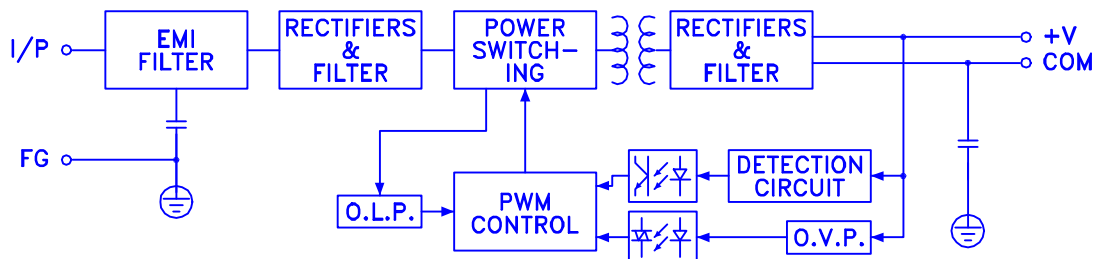
| MODEL                     | PS-65-3.3                                                                              | PS-65-5 | PS-65-7.5 | PS-65-12 | PS-65-13.5 | PS-65-15 | PS-65-24 | PS-65-27 | PS-65-48 |
|---------------------------|----------------------------------------------------------------------------------------|---------|-----------|----------|------------|----------|----------|----------|----------|
| SPECIFICATION             |                                                                                        |         |           |          |            |          |          |          |          |
| DC OUTPUT VOLTAGE         | 3.3V                                                                                   | 5V      | 7.5V      | 12V      | 13.5V      | 15V      | 24V      | 27V      | 48V      |
| OUTPUT V. TOLERANCE       | ±3%                                                                                    | ±3%     | ±3%       | ±2%      | ±2%        | ±2%      | ±2%      | ±2%      | ±2%      |
| OUTPUT RATED CURRENT      | 12A                                                                                    | 12A     | 8A        | 5.2A     | 4.7A       | 4.2A     | 2.7A     | 2.4A     | 1.35A    |
| OUTPUT MIN. CURRENT       | 0A                                                                                     | 0A      | 0A        | 0A       | 0A         | 0A       | 0A       | 0A       | 0A       |
| OUTPUT MAX. CURRENT       | 15.2A                                                                                  | 13.8A   | 9.6A      | 6A       | 5.4A       | 4.8A     | 3A       | 2.7A     | 1.5A     |
| RIPPLE & NOISE p-p        | 80mV                                                                                   | 100mV   | 100mV     | 100mV    | 100mV      | 100mV    | 100mV    | 100mV    | 100mV    |
| LINE REGULATION           | ±1%                                                                                    | ±1%     | ±1%       | ±1%      | ±1%        | ±1%      | ±1%      | ±1%      | ±1%      |
| LOAD REGULATION           | ±3%                                                                                    | ±3%     | ±3%       | ±2%      | ±2%        | ±2%      | ±2%      | ±2%      | ±2%      |
| RATED OUTPUT POWER        | 39.6W                                                                                  | 60W     | 60W       | 62.4W    | 63.5W      | 63W      | 64.8W    | 64.8W    | 64.8W    |
| MAXIMUM OUTPUT POWER      | RATED OUTPUT POWER FOR CONVECTION; 72W (+3.3V:50W;+5V:69W) WITH 18 CFM MIN. FORCED AIR |         |           |          |            |          |          |          |          |
| EFFICIENCY                | 69%                                                                                    | 76%     | 79%       | 79%      | 79%        | 79%      | 80%      | 80%      | 80%      |
| DC VOLTAGE ADJ.           | +10,-5%                                                                                |         |           |          |            |          |          |          |          |
| INPUT VOLTAGE RANGE       | 90~264VAC 47~440Hz ; 120~370VDC                                                        |         |           |          |            |          |          |          |          |
| AC CURRENT                | 1.5A/115V 0.9A/230V                                                                    |         |           |          |            |          |          |          |          |
| INRUSH CURRENT            | COLD START 20A/115V 40A/230V                                                           |         |           |          |            |          |          |          |          |
| LEAKAGE CURRENT           | <0.5mA/240VAC                                                                          |         |           |          |            |          |          |          |          |
| OVERLOAD PROTECTION       | 73~105W (3.3V:51~75W)(5V:70~105W) TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY     |         |           |          |            |          |          |          |          |
| OVER VOLTAGE PROTECTION   | 115%~135%                                                                              |         |           |          |            |          |          |          |          |
| TEMP. COEFFICIENT         | ±0.04% / °C (0~50°C)                                                                   |         |           |          |            |          |          |          |          |
| SETUP, RISE, HOLD UP TIME | 800ms, 20ms, 20ms                                                                      |         |           |          |            |          |          |          |          |
| VIBRATION                 | 10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES                                |         |           |          |            |          |          |          |          |
| WITHSTAND VOLTAGE         | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC                                            |         |           |          |            |          |          |          |          |
| ISOLATION RESISTANCE      | I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms                                             |         |           |          |            |          |          |          |          |
| WORKING TEMP., HUMIDITY   | -10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH                                |         |           |          |            |          |          |          |          |
| STORAGE TEMP., HUMIDITY   | -20°C~+85°C, 10%~95% RH                                                                |         |           |          |            |          |          |          |          |
| DIMENSION                 | 127*76.2*42mm (L*W*H) PCB ONLY                                                         |         |           |          |            |          |          |          |          |
| WEIGHT                    | 0.28Kgs                                                                                |         |           |          |            |          |          |          |          |
| SAFETY STANDARDS          | UL1950, TUV EN60950 APPROVED                                                           |         |           |          |            |          |          |          |          |
| EMC STANDARDS             | CISPR22 (EN55022), IEC1000-4-2,3,4,5 IEC1000-3-2,3 VERIFICATION                        |         |           |          |            |          |          |          |          |

NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25° C 70% RH. AMBIENT.  
2.TOLERANCE INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.  
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.  
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.  
5.OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT RELATED TO MAXIMUM OUTPUT POWER.  
6.MOUNTING HOLES M1 AND M2 SHOULD BE GROUNDED FOR EMI PURPOSES.

2002-04-29

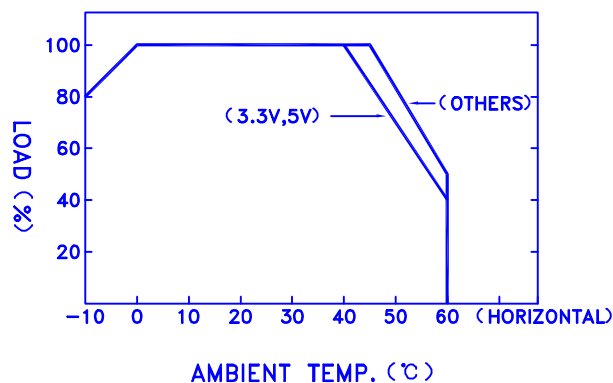
# PS-65 SERIES

## BLOCK DIAGRAM



fosc : 65KHz

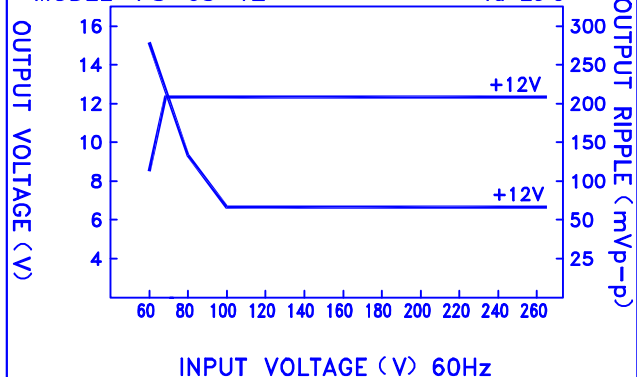
## OUTPUT DERATING



## STATIC CHARACTERISTICS

MODEL : PS-65-12

Ta=25°C



## DIMENSION (mm)

### ☒ TERMINAL PIN NO. ASSIGNMENT

- ☒ CN1 : MOLEX 5277-02  
PIN 1,2 : AC INPUT
- ☒ CN2 : MOLEX 5273-06  
PIN 1,2,3 : DC OUTPUT +V  
PIN 4,5,6 : DC OUTPUT -V

### ☒ MATING CONNECTORS

- ☒ CN1,2 MATING CONNECTOR TYPE  
MOLEX 5195 AND 5239 SERIES  
OR EQUIVALENT WITH MOLEX  
5194 AND 5225 OR EQUIVALENT  
CRIMP TERMINALS.

